

Shuttle®

Shuttle K-Series Barebone K45



Web
Surfing



Instant
Messaging



Office
Applications



Changeable
Front Image

Smart Budget Solution For Simple Tasks



xpc

Feature Highlights



- Small cube design: only nine litres
- Customizable front design
- Supports Intel Core 2 Duo 65/45nm, up to 1333 MHz FSB
- Intel 945GC + ICH7 chipset
- Intel onboard graphics with VGA output
- Supports two hard disks and one PCI card
- 2x DDR2-667, up to 2 GB max.
- Gigabit LAN, 4x USB, 5.1 Audio
- Legacy ports: PS/2, LPT, COM
- Optional integrated Wireless LAN module
- Energy efficient 100W FlexATX power supply

Smallest Shuttle cube PC ever



Shuttle
K-Series
9 Litres



Shuttle
G-Series
11.5 Litres



Shuttle
P-Series
15 Litres



Other:
Midi Tower:
50 Litres
Big Tower:
65 Litres



Front Design: Clean and Stylish



Hard disk
LED

Power
LED

Power
button

Acrylic front
plate

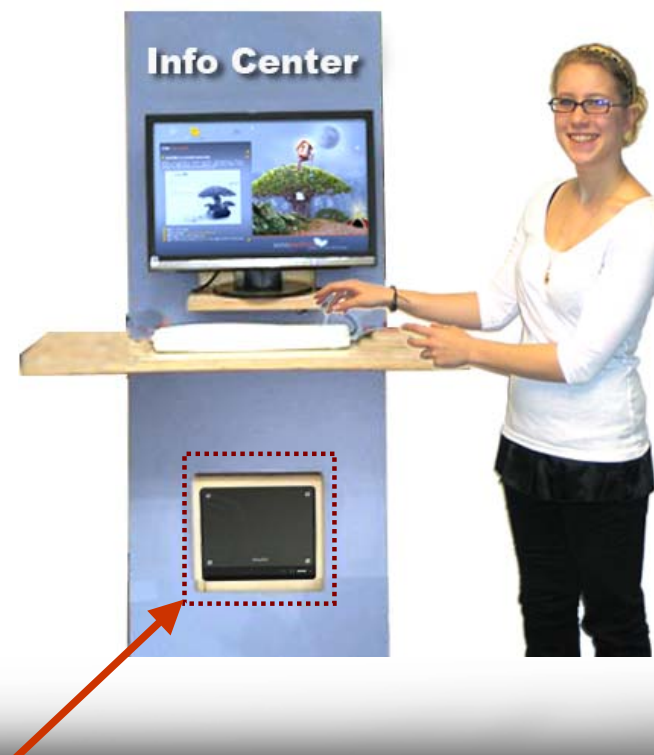
Aluminium
cover



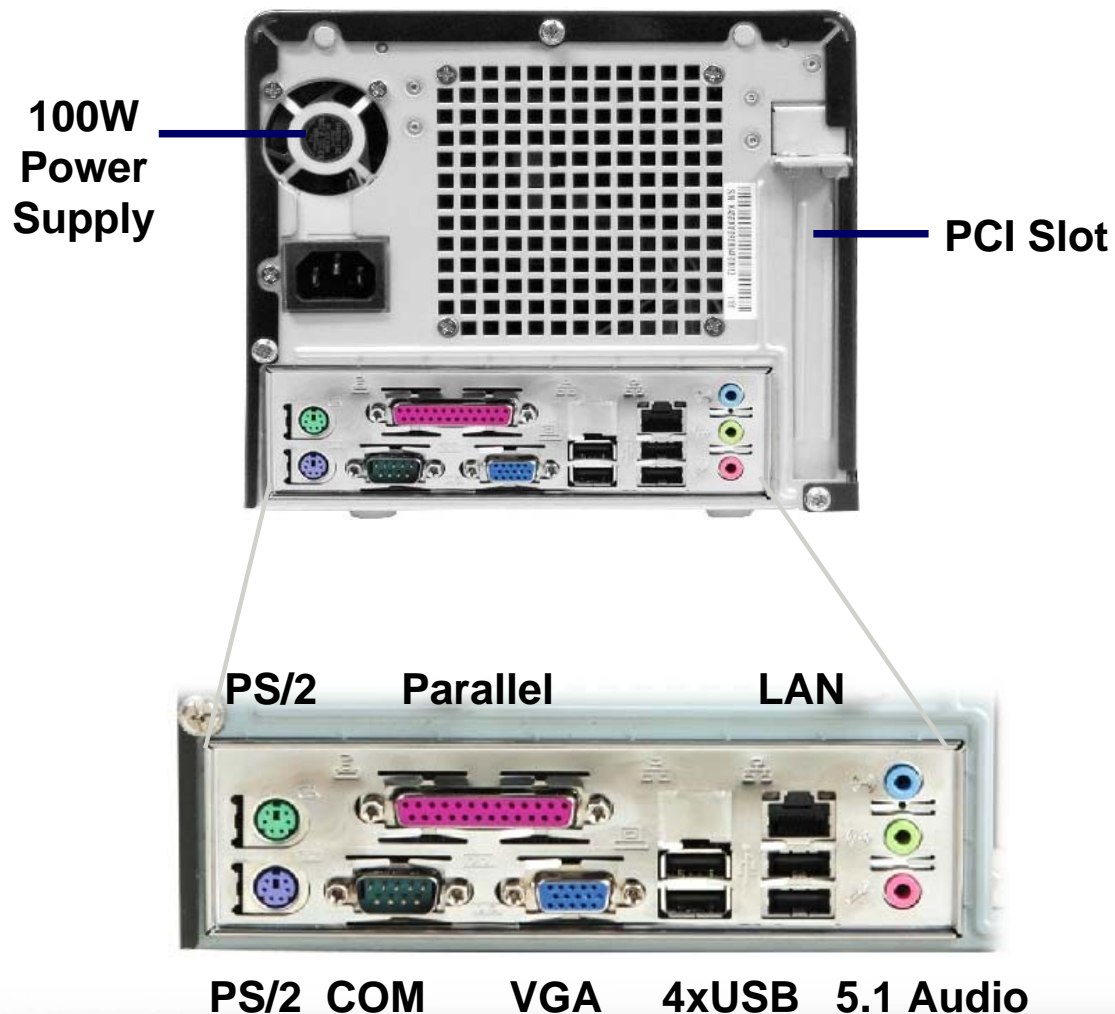
Enhanced Security



- No optical drive or USB ports on the front panel to avoid data theft
- Ideal as network client or “Info Centre”

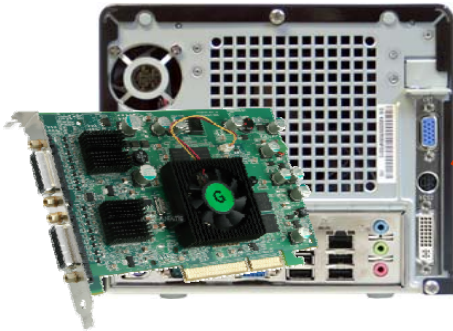


Connectors



- Various connectors for daily use
- Flexible: 4x USB 2.0
- Serial + parallel ports, especially used for industrial applications
- Gigabit LAN port for fast Ethernet connections
- Audio ports for headset or 5.1 surround sound
- Intel GMA950 DX9 graphics with VGA port (224MB UMA)
- PCI slot for second network port (server), special expansion card or PCI graphics card

PCI-Slot



Onboard USB e.g.
for an optional
WLAN module



2x SATA + IDE



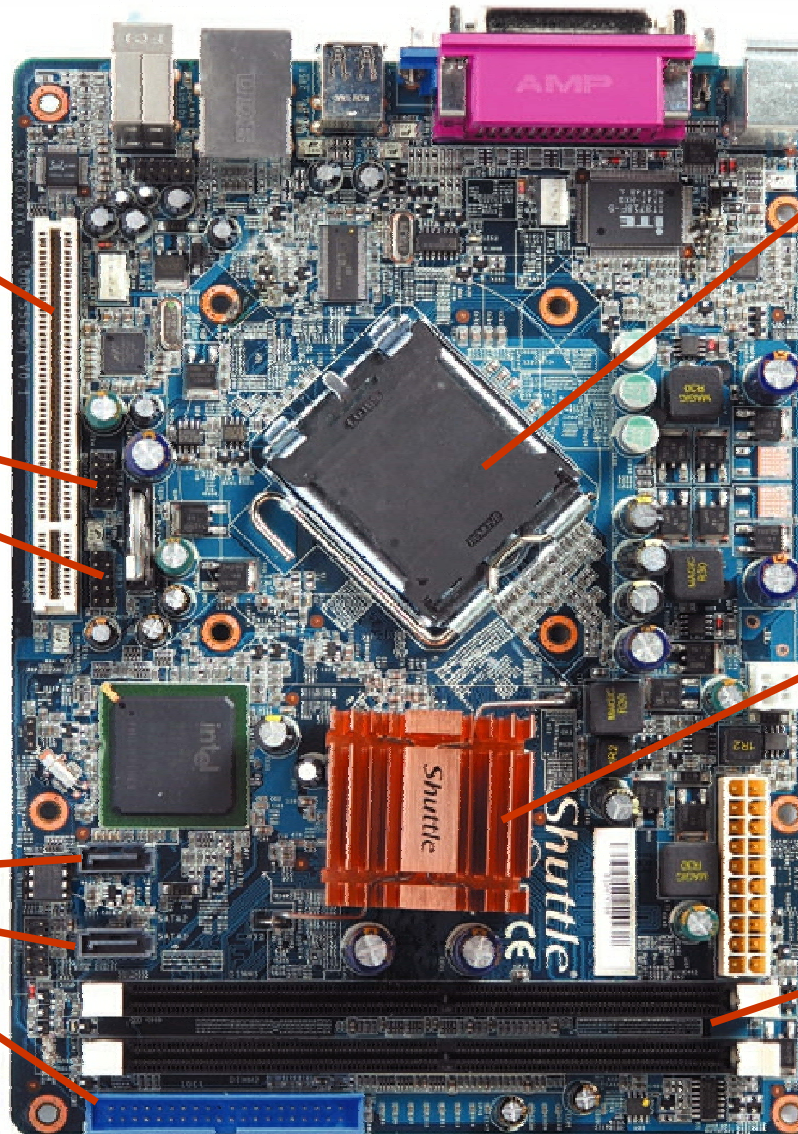
Socket 775 (65/45nm)
max. 1333MHz FSB



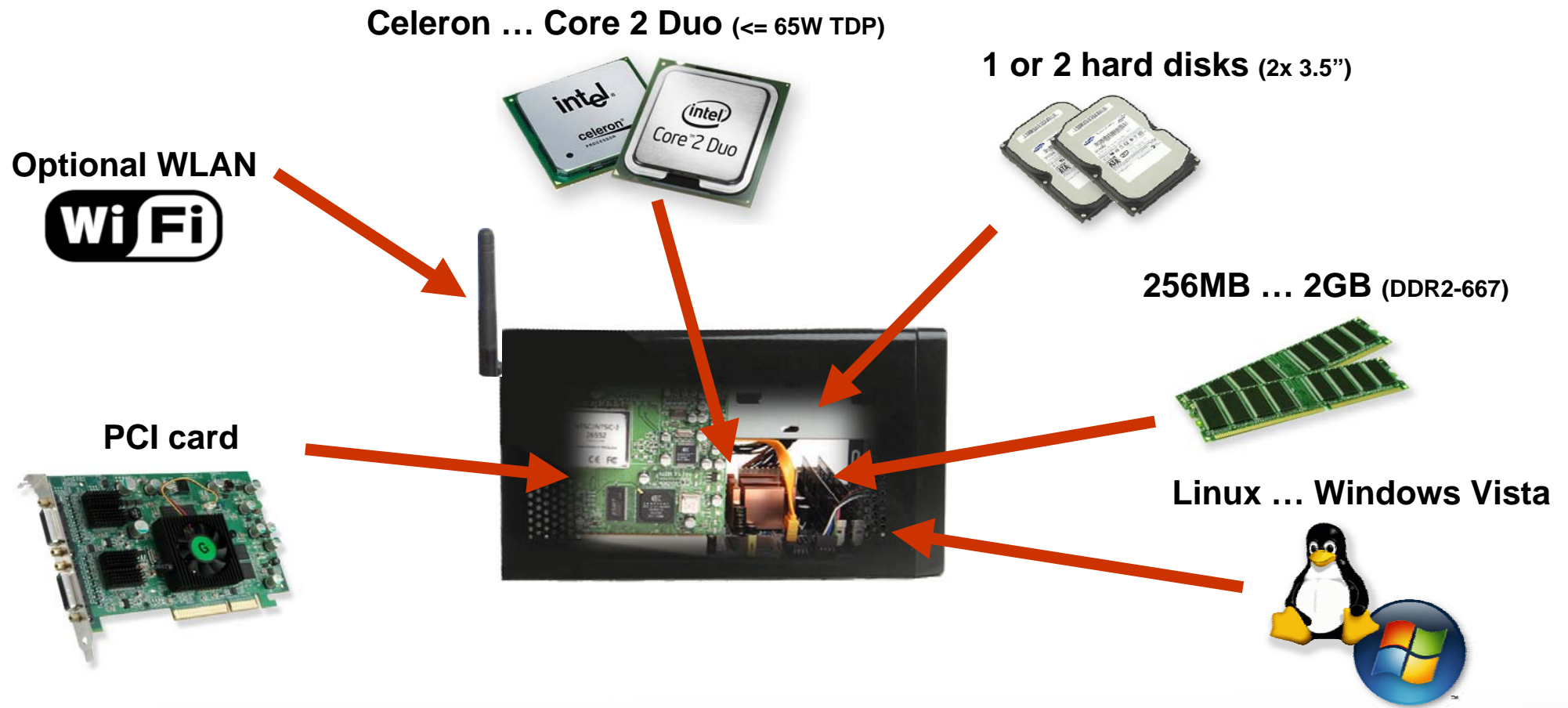
Chipset: Intel 945GC
with passive cooling



2x DDR2 slots



Thin Client or Workstation? - It is your choice!



Temperature-controlled cooling fan

The Shuttle KPC Barebone K45 is delivered without processor cooler. Intel standard coolers are to be used which are included with Intel “boxed” processors. The fan speed of the CPU fan and the rear fan is controlled by the Smart Fan option in the BIOS.

Intel “boxed” cooling fan (not included)



Rear cooling fan

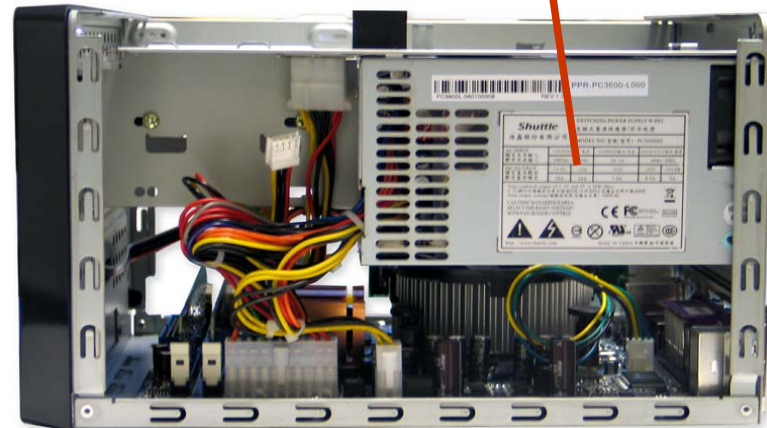


Less power consumption

The Shuttle Barebone K45 is not only small when it comes to dimensions, but also works highly energy efficient. While a standard office system draws approx. 100W in normal operation (without screen), the K45 configured as a typical office PC only draws **47W** in idle mode and 59W under full load.

Configuration under test:

- System: Shuttle KPC Barebone K45
- Operating System: OpenSUSE Linux
- Processor: Intel Celeron 430 (1.8GHz, TDP=35W)
- Memory: 2x 1GB DDR2-667
- Hard disk: 1x 80GB (3.5")



Shuttle 100W power supply



Local Network Client

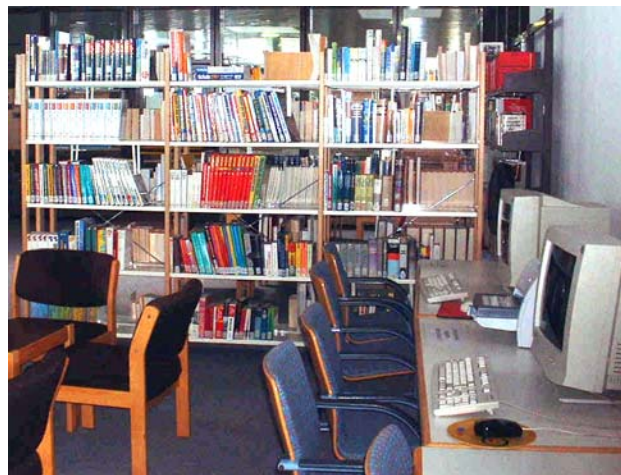
- Ideal use as fast network client with Gigabit LAN
- PXE (Preboot Execution Environment) enables boot from LAN - no hard disk required



Call Centre



Office



Library



P.O.S.



Special Applications



Info Centre

Use the KPC for your presentations.

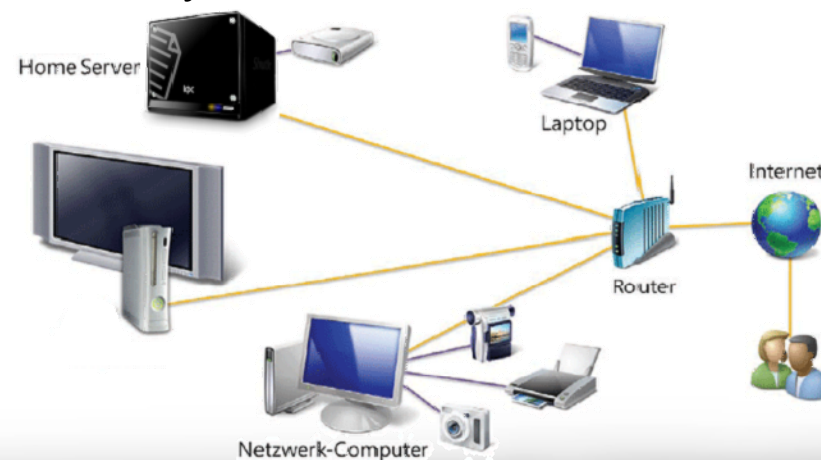


Device Networking

The KPC can be used to control external devices over serial port, LAN or WLAN in a wide variety of applications including industrial automation, security, building automation, medical / healthcare, retail / POS, public institutions and many more.

Home Server

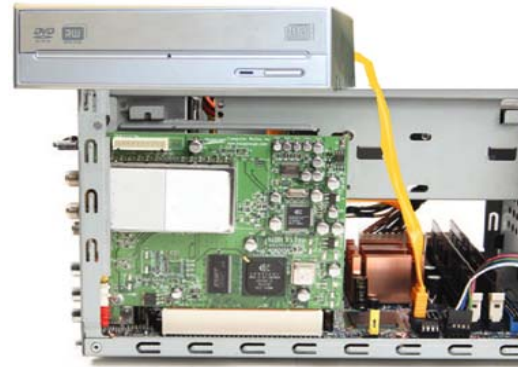
Set up the centre of your home network to access your files from remote.



Software Installation without a 5.25" bay



1) External DVD drive via USB



2) DVD drive by flying wires (IDE/SATA)



3) Installation from a USB Stick

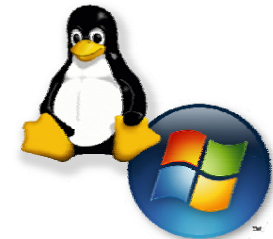


4) Boot/Install from LAN (PXE)



5) Duplicate the hard disk (for mass production)

Linux or Windows



MyKover™ - Individual Front Panel Design

The acrylic front plate can easily be removed in order to create individual designs for the front panel.



Please download sample images here:
<http://global.shuttle.com/Event/kpc/index5.html>



Optional Accessories for the Shuttle K-Series Barebone K45

WLAN Module (PN20)



250W Power Supply (PC40)



Shuttle Entry-Level Barebones – In Comparison

	KPC K45	XPC SD30G2 Pro	XPC SN68SG2
Color	Black (other colors planned)	Black, Silver	Black
Chipset	Intel 945GC	Intel 945GC	NVIDIA GF 7025
CPU Socket	Intel S775	Intel S775	AMD AM2
FSB / HT	1333MHz FSB	1333MHz FSB	1000MHz HT
Memory	2x 1GB DDR2-667	2x 1GB DDR2-667	2x 2GB DDR2-800
Bays	2x 3,5" (internal)	1x 5,25" 2x 3,5" (1x internal)	1x 5,25" 2x 3,5" (1x internal)
Raid Support	-	-	0, 1, 0+1, 5
Slots	1x PCI	1x PCIe x16 1x PCI	1x PCIe x16 1x PCI
Graphics	Intel GMA950 DX9, 224MB UMA VGA port	Intel GMA950 DX9, 224MB UMA VGA port	NVIDIA GF 7025 DX9, 256MB UMA VGA port
Network	Gigabit LAN (optional: WLAN)	Gigabit LAN (optional: WLAN)	Gigabit LAN (optional: WLAN)
Audio	5.1	7.1 (optional: SPDIF)	7.1 (optional: SPDIF)
USB front/rear/onb.	0/4/4	2/4/2	2/4/4
Firewire front/rear	0/0	1/1	1/1
SATA / eSATA /ATA	2 / 0 / 1	2 / 0 / 1	2 / 2 / 1
Legacy Ports	2x PS/2, COM, Parallel	2x PS/2, COM, (optional: Parallel)	(optional: Parallel)
Power Supply	100W	250W	250W
Dimensions (LWH) and Volume	28x19x17 cm 9 Litres	30x20x18.5 cm 11 Litres	30x20x18.5 cm 11 Litres



Smart Budget Solution For Simple Tasks

The Shuttle K-Series Barebone K45 is a great choice for basic computing needs such as office applications and web surfing in the business segment. The K45 is a small and stylish PC platform with low power consumption that seamlessly integrates into a network using its Ethernet or an optional WLAN interface. This affordable entry-level platform targets SME, corporate, public and educational institutions. Easily set up an ideal Mini-PC to manage any simple everyday applications in a snap while banking on Shuttle's high reliability.



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Shuttle K-Series Barebone K45 Specifications

FORM FACTOR

- Shuttle form factor 28 x 19 x 17 cm (LWH)
- Shuttle K-chassis with Aluminum cover

PROCESSOR

- Intel® Core™ 2 Duo / Pentium Dual-Core and Celeron 400 Series
- 533/800/1066/1333 MHz FSB
- LGA775 CPU design

CHIPSET

- North Bridge Intel® 945GC
- South Bridge ICH7

MEMORY

- 2 x DDR2 533/667 (Overclocking up to 833MHz)
- Supports Dual-Channel-Operation up to 1GB per DIMM-Socket (total size max 2GB)

6-CHANNEL HD-AUDIO

- Realtek ALC662
- With analog 5.1 channel outputs
- Connectors swithable to Line-in/out and Microphone

GIGABIT ETHERNET

- Marvell 8056
- Compliant to IEEE 802.3u 1000Base-T
- Supports 10Mb/s, 100Mb/s and 1000Mb/s
- Supports Wake-On-LAN

SATA/IDE CONNECTORS

- 1x UltraDMA 100 IDE
- 2x SATA 3.0Gb/s

POWER SUPPLY

- 100W Flex-ATX power supply
- Input voltage: 100-240V AC

DRIVE BAYS

- 2x 3.5" bays (internal)
- **no** 5.25" bays

EXPANSION SLOTS

- 1x PCI slot (32 bit)

FRONT PANEL

- 1x Hard Disk LED
- 1x Power LED
- 1x Power Button

BACK PANEL

- 1x VGA (D-Sub, analog)
- 4x USB 2.0
- 1x RJ45 Gigabit Ethernet
- 3x Audio connectors (5.1)
- PS/2 mouse connector
- PS/2 keyboard connector
- Serial port (COM)
- Parallel port (LPT)
- Perforation for optional Wireless LAN

ACCESSORIES

- Installation Guide
- Driver CDROM
- SATA cable
- Power cord

